



22763 U.S. PTO

PTO/SB/05 (04-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 88369-CON

First Inventor Ravenscroft, Keith N.

Title Composition and Method For Metal Coloring Process

Express Mail Label No. EE353629992US

22141 U.S. PTO
10/840028

050504

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 35]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☐ Drawing(s) (35 U.S.C. 113) [Total Sheets _____]
5. Oath or Declaration [Total Sheets 4]
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
- i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 10/216,638

Prior application information:

Examiner Oltmans, Andrew L.

Art Unit: 1775

For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

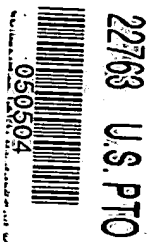
☒ Customer Number: 28020 OR ☐ Correspondence address below

Name	Malcolm D. Reid		
Address	Gray, Plant, Mooty, Mooty & Bennett, PA P.O. Box 2906		
City	Minneapolis	State	MN
Country	USA	Telephone	612-632-3304
		Fax	612-632-4444

Name (Print/Type)	Malcolm D. Reid	Registration No. (Attorney/Agent)	27,065
Signature		Date	May 5, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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500 IDS CENTER
80 SOUTH EIGHTH STREET
MINNEAPOLIS, MN 55402-3796
612 632-3000
Fax: 612 632-4444

1010 WEST ST. GERMAIN STREET
SUITE 600
ST. CLOUD, MN 56301
320 252-4414
Fax: 320 252-4482
Reply to Minneapolis
Malcolm D. Reid
612 632-3304
malcolm.reid@gpmlaw.com

May 5, 2004

VIA EXPRESS MAIL (LABEL #EE353629992US)

BOX PATENT APPLICATION
Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In re application of: Ravenscroft, Keith N. *et. al.*
Mailed: ~~April 14, 2004~~ **MAY 5, 2004**
Title: COMPOSITION AND METHOD FOR METAL COLORING PROCESS
Attorney Docket No.: 88369-CON

TRANSMITTAL LETTER

Dear Sir:

Enclosed for filing with the United States Patent and Trademark Office, please find:

1. Transmittal Letter, including mailing by Express Mail under 37 C.F.R. 1.10 (2 Sheets);
2. Utility Patent Application Transmittal Form (Form PTO/SB/05);
3. Preliminary Amendment (8 Sheets);
4. Copy of all application documents filed on behalf of Parent Application Number 10/216,638 (35 Sheets);
5. Copy of Parent Declaration;
6. Fee Transmittal for FY 2004 (in duplicate); and,
7. Postage Paid Postcard Itemizing Above Documents

Please charge the authorized fees of \$602.00, and any other fees required at this time, to Deposit Account 50-0937. If you have any questions, please contact me.

Very truly yours,

Malcolm D. Reid (27,065)
Attorney for Applicants

Enclosures/GP:1573349 v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 602.00)

Complete if Known

Application Number	not assigned
Filing Date	May 5, 2004
First Named Inventor	Ravenscroft, Keith N.
Examiner Name	Oltmans, Andrew L.
Art Unit	1775
Attorney Docket No.	88369-CON

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number
50-0937

Deposit Account Name
Gray, Plant, Mooty

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	385.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ 385.00)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	25	-20** =	5	x	Fee from below	9.00	=	45.0
Independent Claims	7	-3** =	4	x	43.0		=	172.0
Multiple Dependent							=	

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$ 217.00)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES


Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

Name (Print/Type)	Malcolm D. Reid	Registration No. (Attorney/Agent)	27,065	Telephone	612-632-3304
Signature		Date	May 5, 2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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320 252-4414
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Malcolm D. Reid
612 343-5378

August 8, 2002

VIA EXPRESS MAIL (LABEL #EE353634065US)

BOX PATENT APPLICATION
Assistant Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

EE353634065US

In re Divisional Application of:	Keith N. Ravenscroft and William V. Block
Serial No.	09/710,187 (divisional of 09/317,304)
Original Filing Date:	November 10, 2000
Title:	Composition And Method For Metal Coloring Process
Attorney File No.:	88369

TRANSMITTAL LETTER – FIRST DIVISIONAL APPLICATION

Dear Sir:

Enclosed for filing with the United States Patent and Trademark Office, please find the following documents:

1. This Request and Preliminary Amendment for Filing of Divisional Application under 35 U.S.C. 120 and 121, and under 37 C.F.R. 1.53(b)(1), claiming the benefit of the filing date of patent application, Serial No. 09/710,187, filed November 10, 2000; which claimed the benefit of the filing date of patent application, Serial No. 09/317,304, filed May 24, 1999;
2. A copy of patent application, Serial No. 09/317,304 filed May 24, 1999, (22 pages, 28 claims), a copy of the Transmittal Letter-Divisional Application, which includes a Preliminary Amendment filed with Serial No. 09/710,187, on November 10, 2000 (5 pages, 17 claims), including a copy of the filed Executed Combined Declaration and Power of Attorney and of the Verified Statement Claiming Small Entity Status, filed with patent application, Serial No. 09/710,187, dated November 10, 2000 and with Serial No. 09/317,304, dated May 24, 1999;

BOX PATENT APPLICATION

Divisional Application of Serial No. 09/710,187

August 8, 2002

3. A Petition to Make Application Special under 37 C.F.R. 1.102(b), together with a copy of a Decision on Petition, dated November 1, 2000, granting this same Petition in the parent application, Serial No. 09/317,304, dated May 24, 1999.
4. Information Disclosure Statement, Form PTOL 1449 and copies of documents # A-DD cited thereon;
5. Please debit the Gray, Plant, Mooty, Mooty, & Bennett P.A. Deposit Account, No. 500937 in the amount of \$370 for the filing fee (after entry of the present Preliminary Amendment, so that claims 20-26 are presented for examination, including one (1) independent claim and a total of (7) claims, are presented for examination.
6. Certificate under 37 C.F.R. 1.10 of Mailing by Express Mail; and
7. Postage paid postcard itemizing the above documents.

PRELIMINARY AMENDMENT

Please amend the written description and the claims of Serial No. 09/710,187, filed November 10, 2000.

In The Written Description

At page 1, after line 2, delete the following:

"CROSS-REFERENCE TO RELATED PATENT APPLICATION

This application is a divisional application of Serial No. 09/710,187, filed November 10, 2000, which is a divisional application of Serial No. 09/317,304, filed May 24, 1999."

In substitution for the information deleted at page 1, after line 2, please add the following:

"CROSS-REFERENCE TO RELATED PATENT APPLICATION

This application is a divisional application of patent application, Serial No. 09/710,187, filed November 10, 2000; which claimed the benefit of the filing date of divisional patent application, Serial No. 09/317,304, filed May 24, 1999."

BOX PATENT APPLICATION

Divisional Application of Serial No. 09/710,187

August 8, 2002

In The Claims

Before calculation of the filing fee for this divisional application, please cancel original claims 19, 27, and 29-45, so that claims 20-26 are presented for examination.

You are authorized to debit/credit the Gray, Plant, Mooty, Mooty & Bennett, P.A. Deposit Account # 50 0937 for any additional/excess fees relating to this correspondence.

Please note that the enclosed patent application, Serial No. 09/317,304 filed May 24, 1999 is missing the first two lines of the claim. With the first two lines added, the claim reads as follows:

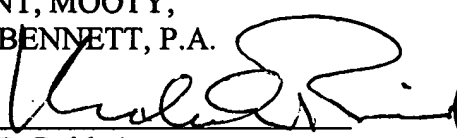
23. The oxidation solution of claim 21, wherein the accelerator is selected from organic and inorganic nitro compounds, alkali metal compounds of citrate, molybdate, polyphosphate, vanadate, chlorate, tungstate, thiocyanate, dichromate, stannate, sulfide and thiosulfate, and stannous chloride and stannic chloride, and mixtures thereof.

If you have any questions, please contact me.

Sincerely,

GRAY, PLANT, MOOTY,
MOOTY & BENNETT, P.A.

By


Malcolm D. Reid, Attorney
Registration No. 27,065

MDR

Enclosures

cc: Norman W. Villwock, President and Chief Executive Officer
Mark Ruhland, Vice President, Birchwood Laboratories
William V. Block
Richard Flint

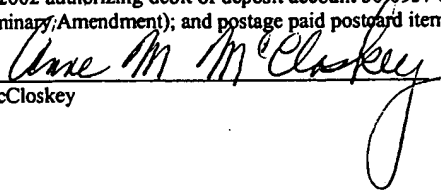
BOX PATENT APPLICATION

Divisional Application of Serial No. 09/710,187

August 8, 2002

Certification under 37 C.F.R. 1.10 of mailing by Express Mail

Express Mail label no: EE353634065. Date of deposit: August 8, 2002. I hereby certify that the following identified correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, United States Patent and Trademark Office, Washington, D.C. 20231. Transmittal Letter, Request and Preliminary Amendment for Filing of Divisional Application under 35 U.S.C. 120 and 121, and under 37 C.F.R. 1.53(b)(1), claiming the benefit of the filing date of the patent application, Serial No. 09/710,187, filed November 10, 2000 which claimed the benefit of the filing date of patent application, Serial No. 09/317,304 filed May 24, 1999; a copy of the originally filed patent application, Serial No. 09/317,304, filed May 24, 1999 (22 pages, 10 claims, with entry of Preliminary Amendment), a copy of the original Executed Combined Declaration and Power of Attorney, a copy of the original filed Verified Statement Claiming Small Entity Status; A Petition to Make Application Special under 37 C.F.R. 1.102(b), together with a copy of a Decision on Petition dated November 1, 2000, granting this same Petition in the parent application, Serial No. 09/317,304, filed May 24, 1999; Information Disclosure Statement, Form PTOL 1449 and Fee Transmittal for FY 2002 authorizing debit of deposit account 50-0937 \$370.00 in payment of the filing fee (with the entry of the present Preliminary Amendment); and postage paid postcard itemizing the above documents.


Anne McCloskey

GP:906899 v1

BOX PATENT APPLICATION

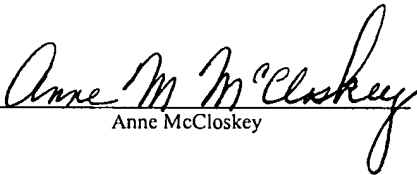
Commissioner for Patents

Page 2

May 5, 2004

Certificate of Mailing by Express Mail under 37 C.F.R. 1.10

Express Mail label number: EE353629992US. Date of Deposit: May 5, 2004. I hereby certify that the following identified correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to Box Patent Application, Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450: Transmittal Letter, including mailing by Express Mail under 37 C.F.R. 1.10 (2 Sheets); Utility Patent Application Transmittal Form (Form PTO/SB/05); Preliminary Amendment (8 Sheets); Copy of all application documents filed on behalf of Parent Application Number 10/216,638 (35 Sheets); Copy of Parent Declaration; Fee Transmittal for FY 2004 (in duplicate); and, Postage Paid Postcard Itemizing Above Documents


Anne McCloskey